

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method comprising:
calculating link margin for a wireless device using a ~~received~~ power level ~~indication~~ of a signal received by the wireless device and a receiver sensitivity indication; and
adjusting at least one of transmit data rate and transmit power level for the wireless device based on said calculated link margin.
2. (Currently Amended) The method of claim 1, wherein:
said wireless device is a wireless client device for use in a wireless network; and
said ~~received~~ power level ~~indication~~ of said signal received by the wireless device
includes a received power level (RPL) value.
3. (Currently Amended) The method of claim 1, wherein:
calculating includes determining a difference between said ~~received~~ power level ~~indication~~ of said signal received by the wireless device and said receiver sensitivity indication.
4. (Original) The method of claim 1, wherein:
adjusting includes selecting a transmit data rate by determining which of a plurality of ranges said link margin falls within.
5. (Original) The method of claim 1, wherein:
adjusting includes entering a power reduction loop when said link margin exceeds a predetermined level.
6. (Original) The method of claim 1, further comprising:
determining receiver sensitivity, before calculating link margin, based on a data rate of a received signal.

7. (Original) The method of claim 6, wherein:
said received signal is a received beacon signal.
8. (Original) The method of claim 1, wherein:
adjusting includes selecting a maximum data rate and decreasing a transmit power level when said link margin exceeds a predetermined value.
9. (Currently Amended) A wireless device comprising:
a wireless transceiver;
a link margin determination unit to determine a link margin associated with the wireless transceiver using a received power level of the wireless transceiver; and
a transmit data rate determination unit to select a transmit data rate for the wireless transceiver based on said link margin determined by said link margin determination unit.
10. (Original) The wireless device of claim 9, wherein:
said transmit data rate determination unit selects said transmit data rate by determining which of a plurality of link margin ranges said link margin falls within.
11. (Original) The wireless device of claim 10, wherein:
said transmit data rate determination unit selects a maximum data rate when said link margin exceeds a predetermined value.
12. (Original) The wireless device of claim 9, further comprising:
a transmit power determination unit to adjust a transmit power level of the wireless device based on link margin.
13. (Original) The wireless device of claim 12, wherein:
said transmit power determination unit enters a power reduction loop when said link margin exceeds a predetermined level.

14. (Currently Amended) The wireless device of claim 9, wherein:

said link margin determination unit determines said link margin by calculating a difference between ~~a received power level indication~~ said received power level of the wireless transceiver and a receiver sensitivity ~~of said wireless transceiver~~ value.

15. (Currently Amended) The wireless device of claim 14, wherein:

said receiver sensitivity value is estimated based upon a ~~receive data rate~~ of a signal received by said wireless transceiver.

16. (Currently Amended) The wireless device of claim 14, wherein:

said wireless device is a wireless client device for use within a wireless local area network; and

said received power level ~~indication~~ of the wireless transceiver includes a received power level (RPL) value.

17. (Currently Amended) An article comprising a storage medium having instructions stored thereon that, when executed by a computing platform, result in:

calculating link margin for a wireless device using a ~~received power level indication~~ of a signal received by the wireless device and a receiver sensitivity indication; and

adjusting at least one of transmit data rate and transmit power level for the wireless device based on said calculated link margin.

18. (Currently Amended) The article of claim 17, wherein:

calculating includes determining a difference between said ~~received power level indication~~ of said signal received by the wireless device and said receiver sensitivity indication.

19. (Original) The article of claim 17, wherein:

adjusting includes selecting a transmit data rate by determining which of a plurality of ranges said link margin falls within.

20. (Original) The article of claim 17, wherein:
adjusting includes entering a power reduction loop when said link margin exceeds a predetermined level.
21. (Currently Amended) A wireless device comprising:
at least one dipole antenna;
a wireless transceiver coupled to said at least one dipole antenna;
a link margin determination unit to determine a link margin associated with the wireless transceiver using a received power level of the wireless transceiver; and
a transmit data rate determination unit to select a transmit data rate for the wireless transceiver based on said link margin determined by said link margin determination unit.
22. (Original) The wireless device of claim 21, wherein:
said transmit data rate determination unit selects said transmit data rate by determining which of a plurality of link margin ranges said link margin falls within.
23. (Original) The wireless device of claim 21, further comprising:
a transmit power determination unit to adjust a transmit power level of the wireless device based on link margin.
24. (Original) The wireless device of claim 21, wherein:
said at least one dipole antenna includes multiple dipole antennas in an antenna diversity arrangement.
25. (Original) A method comprising:
selecting a transmit data rate for a wireless transceiver based on a calculated link margin;
and
entering a power reduction loop to reduce a transmit power level of said wireless transceiver when said calculated link margin exceeds a predetermined level.

26. (Original) The method of claim 25, wherein:
selecting a transmit data rate includes determining which of a plurality of ranges said link margin falls within.
27. (Original) The method of claim 25, wherein:
selecting a transmit data rate includes selecting a maximum data rate when said calculated link margin exceeds said predetermined level.
28. (Original) The method of claim 27, wherein:
said maximum data rate is user specified.
29. (Original) The method of claim 25, wherein said power reduction loop includes:
reducing a transmit power level by a first predetermined amount and transmitting a signal;
determining whether an acknowledgement signal has been received in response to transmitting said signal; and
when an acknowledgement signal has been received in response to transmitting said signal, repeating reducing and determining.
30. (Original) The method of claim 29, wherein said power reduction loop further includes:
when an acknowledgement signal has not been received in response to transmitting said signal, increasing said transmit power level by a second predetermined amount.